Quick Start Guide for the Shark® 100-S/200-S Submeters
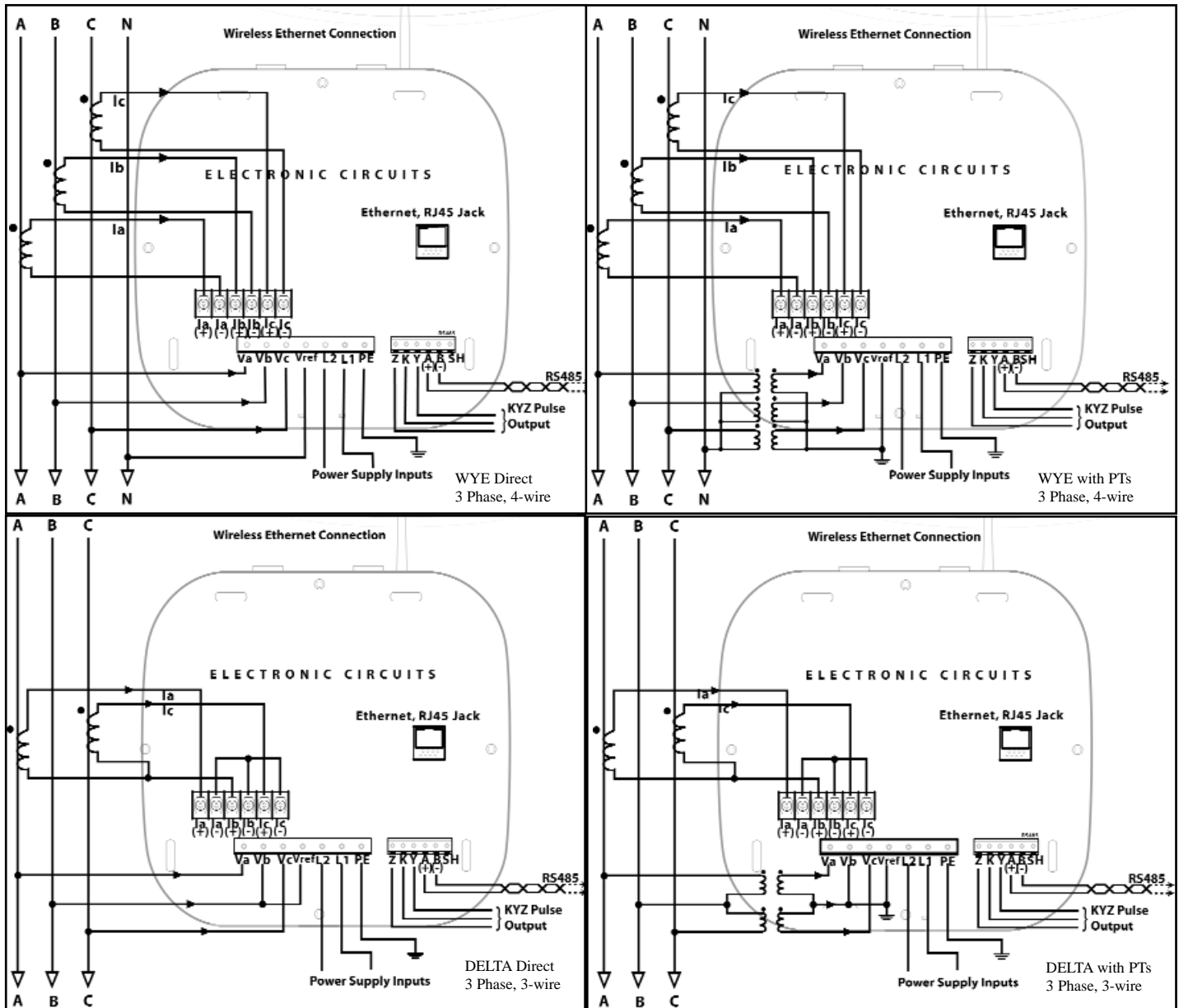
Mechanical Installation

Front cover support

Current Inputs

To Ethernet RJ45 Jack

RS485

Screws

Opened

To MasterDevice

Voltage Inputs

To Other Slaves

Power Supply Inputs

KYZ PulseOutput
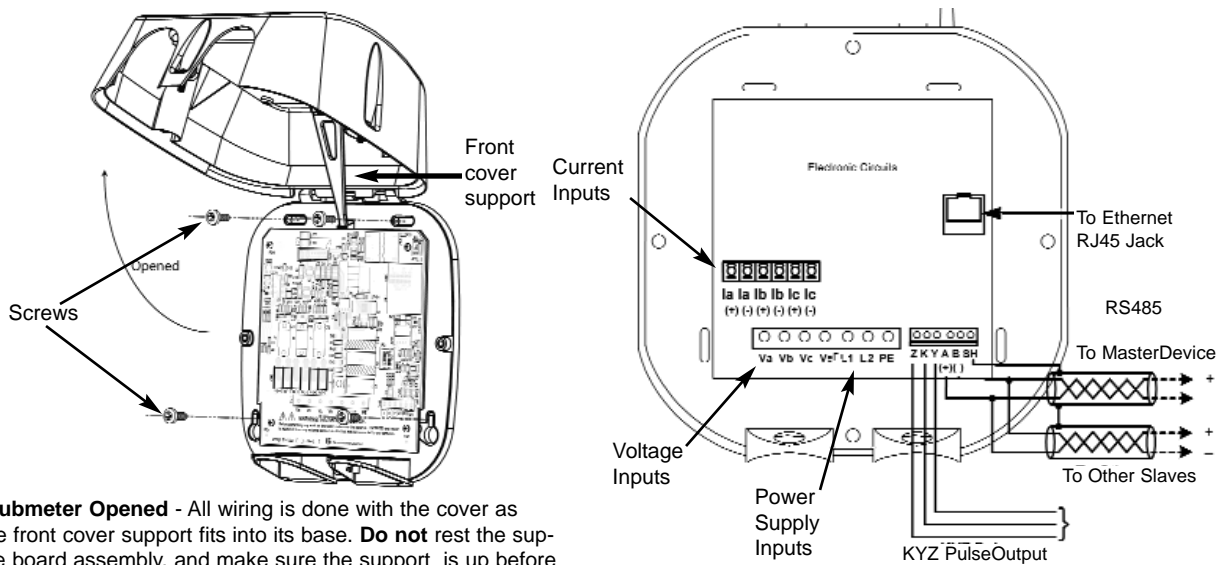
Shark® Submeter Opened - All wiring is done with the cover as shown.The front cover support fits into its base. **Do not** rest the support on the board assembly, and make sure the support is up before closing the front cover.

Communication Connections - RS485, Ethernet and KYZ Pulse
(Do not put Voltage on communication terminals!)

Electrical Installation

Wireless Ethernet Connection

ELECTRONIC CIRCUITS

Ethernet, RJ45 Jack

RS485

KYZ Pulse Output

Power Supply Inputs

WYE Direct
3 Phase, 4-wire

Wireless Ethernet Connection

ELECTRONIC CIRCUITS

Ethernet, RJ45 Jack

RS485

KYZ Pulse Output

Power Supply Inputs

WYE with PTs
3 Phase, 4-wire

Wireless Ethernet Connection

ELECTRONIC CIRCUITS

Ethernet, RJ45 Jack

RS485

KYZ Pulse Output

Power Supply Inputs

DELTA Direct
3 Phase, 3-wire

Wireless Ethernet Connection

ELECTRONIC CIRCUITS

Ethernet, RJ45 Jack

RS485

KYZ Pulse Output

Power Supply Inputs

DELTA with PTs
3 Phase, 3-wire

Program Settings Using the Meter's Faceplate Buttons (Cover Closed)

■ Configuration Mode Using Buttons: MENU, ENTER, DOWN (Arrow) and RIGHT (Arrow)

Push **MENU** from any Readings screen. The MAIN MENU screens appear. Push **DOWN** and the **Configuration Mode** String (CFG) blinks in A Screen. Push **ENTER**. The Configuration Mode **Scroll, CT, PT** screen appears. Push **DOWN** to scroll to **CT, PT, Cnct**.
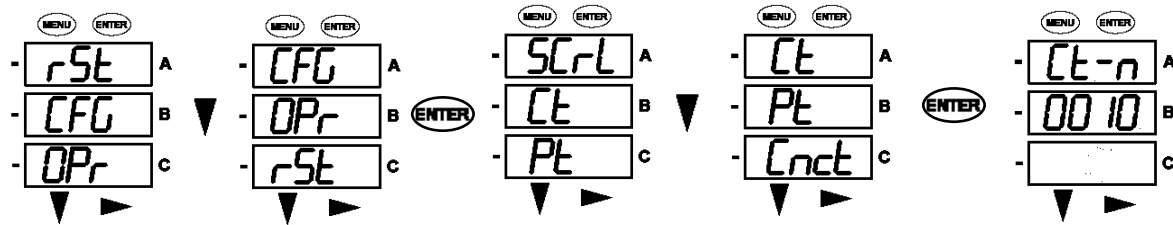

■ Enter Password

All parameters in Configuration Mode (except Scroll) require a 4-digit PASSWORD to change a setting.
On the CT, PT, Cnct screen., push **ENTER**. The Ct-n screen appears. Push **DOWN** and the Password screen appears.
    Four dashes appear in the B Screen. The left digit flashes. Use the **DOWN** button to change the digit.
   Use the **RIGHT** button the move to the next digit. Push **ENTER**.
If the **correct Password** was entered, you return to the Ct-n and the left digit of the setting flashes (ready for change).
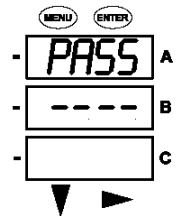

■ Configure CTs (Example Screens) and PTs

There are 3 CT Screens: **Ct-n (Numerator)**, **Ct-d (Denominator)** and **Ct-S (Scaling)**. PT Screens are similar.
Push **DOWN** to scroll from 0 to 9 to enter a new digit. Push **RIGHT** to move to the next digit. When the new setting is entered, push **ENTER**. The Ct-d screen is PRESET at the factory and cannot be changed. Push **ENTER**, repeat steps for Ct-S. Push **ENTER**. PT Configuration Screens will appear next, then Connection (Cnct) screens
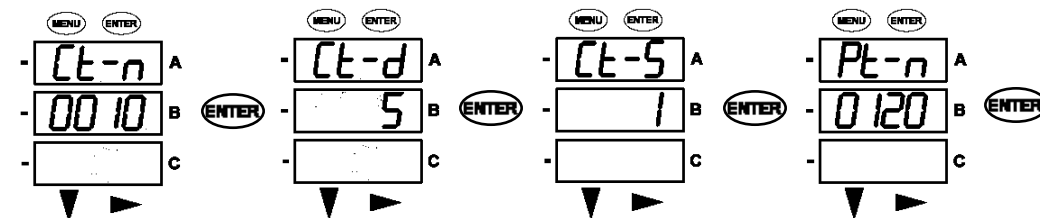
*PRESET to 5 or 1 Amp Value

■ Wiring Connection (Cnct)
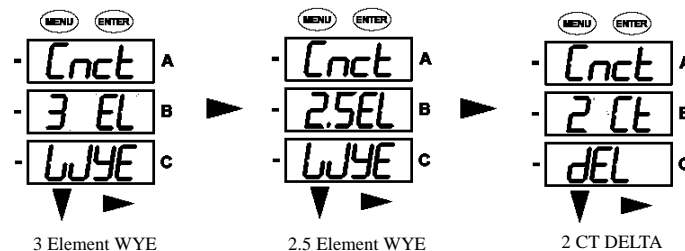
3 Element WYE   2.5 Element WYE   2 CT DELTA

Use **RIGHT** to scroll settings. Push **MENU** twice. Stor ALL? YES appears. To store all settings, push **ENTER**. Stor ALL DONE appears.

Or, if you do not want to store the new settings, push **RIGHT** to Stor ALL? no. Push **ENTER** and return to Auto-Scroll Parameter Designators.

Example CT Settings:

200/5 Amps:	Set the Ct-n value for 200, Ct-S value for 1.
800/5 Amps:	Set the Ct-n value for 800, Ct-S value for 1.
2,000/5 Amps:	Set the Ct-n value for 2000, Ct-S value for 1.
10,000/5 Amps:	Set the Ct-n value for 1000, Ct-S value for 10.

Example PT Settings:

14,400/120 Volts:	Pt-n value is 1440, Pt-d value is 120, Pt-S value is 10.
138,000/69 Volts:	Pt-n value is 1380, Pt-d value is 69, Pt-S value is 100.
345,000/115 Volts:	Pt-n value is 3450, Pt-d value is 115, Pt-S value is 100.
345,000/69 Volts	Pt-n value is 345, Pt-d value is 69, Pt-S value is 1000.

NOTE: For other wiring configurations and further details, refer to the *Shark® Submeter User's Manual & Communicator EXT 3.0 Software Manual* on the enclosed CD.